

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/001553 A1

(51) International Patent Classification⁷: **G02C 7/04**

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/IB2004/002182

(22) International Filing Date: 29 June 2004 (29.06.2004)

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(30) Priority Data:
60/484,059 30 June 2003 (30.06.2003) US

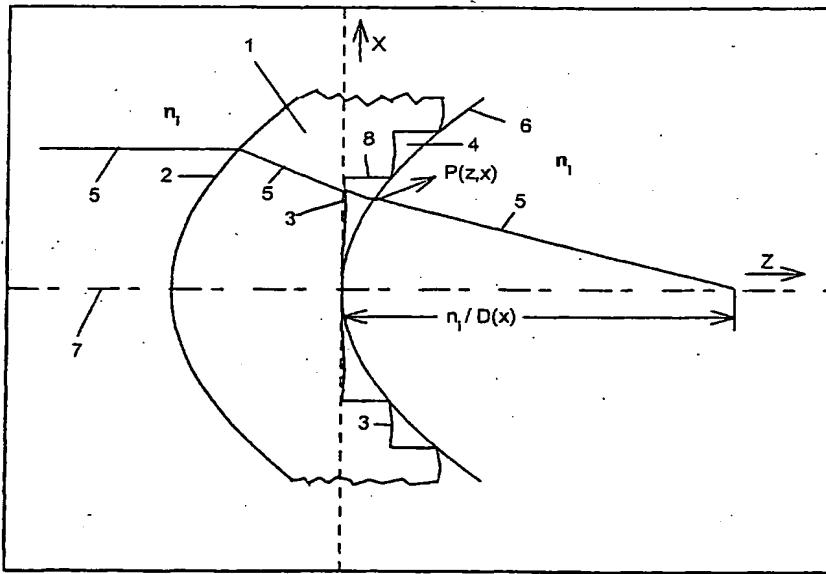
Published:
— with international search report

(71) Applicant and
(72) Inventor: FIALA, Werner, J. [AT/AT]; Staudgasse 88/11, A-1180 Vienna (AT).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTRA-OCULAR LENS OR CONTACT LENS EXHIBITING LARGE DEPTH OF FOCUS

cross section of a depth of focus lens (schematic)



WO 2005/001553 A1

(57) Abstract: Circular and annular lens zones are disclosed which, at a given lens area, exhibit a depth of focus of a lens of considerably smaller area. The large depth of focus is achieved by imparting the lens zones a refractive power profile. An assembly of such large depth of focus lens zones represents a lens of large diameter which lens, in polychromatic light, exhibits essentially the same depth of focus as the lens zones from which it is composed.